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University of Rochester

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JAMIE ROMEO

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EXHIBIT K

Qualified Faculty at the University of Rochester for the Investigation Committee

1. Roman Sobolewski

- Professor of Electrical and Computer Engineering
- Professor of Physics

Expertise and Research Background

Professor Sobolewski's research interests are in the area of experimental condensed matter physics and applied physics. He has over 30 years of experience in condensed matter physics with a focus in applied superconductivity, ultrafast electronics and optoelectronics. He has extensive knowledge of femtosecond lasers, microwave photonics, and quantum electronics. Prof. Sobolewski's current research interests include: ultrafast quantum phenomena, nanoscience, information technology, single-photon detection and counting for quantum computing and quantum cryptography, optical communications, and optoelectronic transducers and modulators for ultrafast input/output interfacing of digital electronics. He also works on femtosecond, time-resolved electro-optic, magneto-optic, and terahertz imaging and characterization of novel solid-state materials and devices, and on the physics of high-temperature superconductivity.

2. Yongli Gao

- *Professor of Physics*

Expertise and Research Background

Professor Gao's research interests lie in the general areas of Chemical, Biological and Condensed Matter Physics, and particularly in the area of Surface Physics. His research involves the investigation of physical phenomena at solid surfaces and interfaces by examining their electronic and structural properties. His recent work has studied the electronic interactions and morphology of interfaces and interface formation; the structural and spectroscopic properties of nanostructures; the transient behavior of charge transfer across interfaces; interfaces in organic semiconductor devices; and ultrafast dynamics of photoexcited electrons in solids.

3. Stephen Wu

- *Assistant Professor of Electrical and Computer Engineering*
- *Assistant Professor of Physics*

Expertise and Research Background

Stephen’s research interests involve merging the world of quantum materials science with nanoscale electronic device engineering for the advancement of electronics technology beyond

Moore's law. This multifaceted and developing field lies at the intersection between traditional Electrical Engineering, Materials Science and Experimental Condensed Matter Physics. Interests include: novel spintronic devices for nanoscale spin current generation, detection, and manipulation; complex oxide thin film materials synthesis for exploration of functional quantum electronic materials; 2D electronic systems for controllable topological electronic devices.\

4. Eby G. Friedman

- *Distinguished Professor of Electrical and Computer Engineering*
- *Professor of Electrical and Computer Engineering*

Expertise and Research Background

Physical Models, Circuits, and Architectures Based on Emerging Technologies:
With the end of classical CMOS scaling, a number of exotic technologies are under development to further continue the microelectronics revolution. The focus of this research is on developing physical models, circuits, architectures, and design methodologies and algorithms that exploit the unusual capabilities of these niche technologies. Some examples of these exciting new technologies are STT-MRAM, RRAM, magnetic tunnel junctions, photonic ICs, memristors, nanowires, graphene, and superconductive SFQ. This research area requires merging a materials/device background with practical circuits and architectures when building extremely high performance (i.e., high speed, low power, mixed-signals, low noise) systems.

5. Todd D. Krauss

- *Jay Last Professor in Arts, Sciences & Engineering*
- *Professor of Chemistry*
- *Professor of Optics*

Expertise and Research Background

Our research involves developing a fundamental understanding of the chemical, photophysical, and optical properties of nanometer scale materials. Unlike macroscopic materials, these objects have physical characteristics that are strong functions of their size and shape. Thus, nanometer scale materials have properties that can be easily controlled and manipulated. Currently, our investigations are focused on the synthesis and spectroscopic characterization of the chemical and physical properties of carbon nanotubes and semiconductor nanocrystals, and the application of these materials to solving important challenges in energy, photo-catalysis, quantum optics, and biomedicine. These studies are highly interdisciplinary, and lie at the interface between chemistry, physics, applied physics, and materials science.

6. Stephen L. Teitel

- *Professor of Physics*

Expertise and Research Background

Professor Teitel's research interests are in the field of theoretical condensed matter physics, particularly in the area of statistical mechanics and critical phenomena. Investigations are carried out primarily through the use of large scale numerical simulations. Most recently his interest has focused on behavior in granular and related soft matter systems, in particular on behavior near the jamming transition where the system changes from liquid-like to solid-like behavior. Previous work dealt with the phenomenological behavior of vortex fluctuations in superconducting systems, such as high temperature superconductors and two dimensional arrays of Josephson junctions. Another recent topic of investigation concerned the structural stability and shape transformations of nanometer sized gold clusters. Professor Teitel has also worked on problems relating to relaxation in glassy systems, the equilibrium shape of crystals, and superfluidity.

7. Mitchell Anthamatten

- *Chair, Department of Chemical Engineering*
- *Professor of Chemical Engineering*
- *Scientist, Laboratory for Laser Energetics*

Expertise and Research Background

A major research challenge is to create modular and robust processes that yield functional, easy-to-process polymeric materials. Our group designs polymer architectures containing reversibly binding groups to control supramolecular structure. We apply thermodynamics, synthetic chemistry, and polymer physics to develop stimuli-responsive materials and highly hysteretic processing schemes, leading to quenched, non-equilibrium, end-use states. Notable accomplishments include (1) development of novel shape-memory elastomers containing reversibly binding side-groups capable of elastic energy storage on multiple time-scales, (2) application of vapor deposition polymerization to trap thin film microstructures during film-growth, and (3) development of nanostructured ionomers and liquid crystals to promote ion-transport under anhydrous conditions. Working with surgeons at UR’s school of medicine, we are currently developing biomedical devices that require in vivo shape change. Through collaboration with the UR’s Laboratory of Laser Energetics, a vapor deposition polymerization process is being developed to fabricate spherical microcapsule targets for inertial fusion energy. All projects are highly interdisciplinary, combining core chemical engineering areas with fundamental chemistry, physics and optics, and projects are directed at specific applications in areas of alternative energy, separations, biotechnologies, advanced optics, and optoelectronics.

8. Qiang Lin

- *Professor of Electrical & Computer Engineering*
- *Professor of Optics*

Expertise and Research Background

Qiang Lin's general research interests focus on understanding the fundamental physics of novel nonlinear optical, quantum optical, and optomechanical phenomena in micro-/nanoscopic photonic structures, and on finding their potential applications towards chip-scale photonic signal processing in both classical and quantum regimes.

9. Robert W. Boyd

- *M. Parker Givens Professor of Optics*
- *Professor of Physics*

Expertise and Research Background

Professor Boyd's research interests are in the area of quantum optics, particularly in the areas of nonlinear optical interactions, nonlinear optical properties of materials, and applications of nonlinear optics including quantum and nonlinear optical imaging. He is the author of Radiometry and the Detection of Optical Radiation (1983), Nonlinear Optics (1992), is co-editor of Optical Instabilities (1986) and Contemporary Nonlinear Optics (1992). Professor Boyd has published approximately 230 research papers, has been awarded six US Patents, and has supervised the PhD thesis of 26 students.

10. Chunlei Guo

- *Professor of Optics*
- *Professor of Physics*
- *LLE Senior Scientist*

Research Interests: experimental condensed-matter and optical physics
Professor Guo’s research is in the area of high-intensity femtosecond laser interactions with matter, including gas, solid, and plasma phases. His work at Rochester led to the discoveries of the so-called Black and Colored Metals, which may find a broad range of technological applications and have been covered extensively on his website: http://www.optics.rochester.edu/workgroups/guo/media.html.
He has authored well over 100 refereed journal articles.